

STASEVICH, Restislav Andreyevich, kandidat tekhnicheskikh nauk; ISAKOV, Pety  
Kuz'mich, kandidat biologicheskikh nauk; SHIL'TSEV, A.N., redakter;  
KIASNIKOVA, T.F., tekhnicheskii redakter.

[Speed, acceleration, pull of gravity; some physical and physiolo-  
gical problems as applied to aviation] Skeresti, uskorenii, pere-  
gruski; nekoterye voprosy fiziki i fiziologii primenitel'no k  
aviatsii. Moskva, Voen.izd-vo Ministerstva obr. SSSR, 1956, 84 p.  
(Aerodynamics) (Aviation mechanics (Persons)) (MIRA 9:6)

VASIL'YEV, Grigoriy Silant'yevich; LYSENKO, Nikolay Mikhaylovich; MIKIRTUMOV, Emmanuil Bogdanovich; BOLOTNIKOV, V.F., doktor tekhnicheskikh nauk, redaktor; SHIL'TSEV, A.N., redaktor; STREL'NIKOVA, M.A., tekhnicheskiy redaktor

[Aerodynamic characteristics of jet fighter planes] Aerodinamicheskie osobennosti reaktivnykh samoletov-istrebiteli. Pod red. V.F.Bolotnikova. Moskva, Voen. izd-vo Ministerstva obor. SSSR, 1956. 264 p.

[Microfilm]

(MIRA 9:10)

(Jet planes)

NEKRASOV, Boris Borisovich; BURAGO, G.F., prof., doktor tekhn.nauk;  
KOSOUROV, K.F., prof., retsenzent; FABRIKANT, N.Ya., retsenzent;  
RUDNEV, S.S., retsenzent; SHIL'TSEV, A.N., red.; STREL'NIKOVA,  
M.A., tekhn.red.

[Hydraulics] Gidravlika. Moskva, Voen.izd-vo M-vn obor.SSSR,  
1960. 260 p. (MIRA 13:5)  
(Hydraulics)

SHILYAGINA, N.E.

Changes in the bioelectrical activity of the cerebral cortex during orientation and conditioned reflexes in ontogenesis in animals [with summary in English]. Zhur.vys.nerv.deiat. 8 no.4:582-592 JL-Ag '58 (MIRA 11:9)

1. Laboratornyy sravnitel'nogo ontogeneza nervnoy sistemy Instituta normal'noy i patologicheskoy fiziologii ANU SSSR.

(REFLEX, CONDITIONED,

KEG, age factor in young dogs (Rus))

(REFLEX,

orientation, eff. on KEG in young dogs, age factor (Rus))

(ELECTROENCEPHALOGRAPHY,

in conditioned & orientation reflexes in young dogs, age factor (Rus))

(AGING, effect,

on KEG, responses to conditioned & orientation reflexes in young dogs (Rus))

SHILYAGINA, M. M.; VOLOKHOV, A. A.; KRYLOVA, O. A.; MIKISHINA, T. M. (Moskva)

K voprosu o stanovlenii i razvitii retikulyarnoy formatsii stvola  
golovnogo mozga v ontogeneze.

report submitted for the First Moscow Conference on Reticular Formation,  
Moscow, 22-26 March 1960.

SHILYAKOV, N.

Laboratory work in measurements. Prof.-takh. obr. 15 no.2:9-12 7  
'58. (MIRA 11:2)

1. Zamestitel' direktora tekhnicheskogo uchilishcha No.9, g. Vladimir.  
(Physical measurements)

MEL'NIKOV, Aleksandr Petrovich, prof., doktor tekhn. nauk; SHIL'TSEV,  
A.N., red.; SOLOMONIK, R.L., tekhn. red.

[Aerodynamics of high speeds; fundamentals of the gas dynamics  
of aircrafts] Aerodinamika bol'shikh skorostei; osnovy gazodi-  
namiki letatel'nykh apparatov. Moskva, Voen. izd-vo M-va obo-  
rony SSSR, 1961. 423 p. (MIRA 15:2)

(Aerodynamics, Supersonic)

(Airfoils)

SHIL'VANI, A. A.

"Covering Metallic Sheets with Lacquer in a High Voltage Electrostatic Field," Vest.  
Elektro-Prom., No. 9, 1949. Engr., Leningrad Polytechnic Inst. in. M. I. Kalinin, 1949.



EXCERPTA MEDICA Sec 2 Vol 12/5 Physiology May 59

1901. CHANGES IN BIOELECTRICAL ACTIVITY OF THE CEREBRAL CORTEX DURING ORIENTING AND CONDITIONED REFLEXES IN ANIMALS IN ONTOGENESIS (Russian text) - Shilyagina N.N., Lab. of Comp. Ontogen. of the Nerv. System, Inst. of Norm. and Pathol. Physiol., USSR Acad. of Med. Scis, Moscow - ZH. VYSSH. NERV. DEYAT. 1958, 8/4 (582-592)

In puppies aged from one day to 3 months, the electrical activity of the motor and optical regions of the cerebral cortex was studied in the process of formation of the orienting reflex and during the elaboration of a conditioned motor reflex. It has been established that the electrical activity of these regions can be recorded from the moment of birth and that subsequently it undergoes typical changes, attaining a maximum (55-60  $\mu\text{v.}$ ) by the 14th to 17th day. After some diminution of amplitude of the EEG, the activity reaches the value for adult animals (30-40  $\mu\text{v.}$ ) by the 30th day after birth. For the first time an auditory stimulus (a bell) produces a momentary depression of the electrical oscillations of the  $\alpha$ -rhythm type on the 9th to 11th day after birth, which coincides with the appearance of the orienting reaction. When a conditioned reflex is being elaborated, slow rhythmical oscillations are observed in the EEG, which appear long before the formation of the motor conditioned reaction.

SHILYAGINA, N. N. Cand Biol Sci -- "Development of the bioelectric activity of the cerebral cortex of animals in ontogenesis." Mos, 1960 (Acad Med Sci USSR). (KL, 1-81, 190)

-149-

VOLOKHOV, A.A.; SHILYAGINA, N.N.

Characteristics of the functional development of cortical and subcortical divisions of the visual analyzer in ontogenesis. Zhur. evol. biokhim. i fiziol. 1 no.1:84-97 Ja-F '65.

(MIRA 18:6)

1. Laboratoriya sravnitel'nogo ontogeneza nervnoy sistemy Instituta mozga AMN SSSR, Moskva.

VOLOKHOV, A.A.; SHILYAGINA, N.N.

Determination of stereotaxic coordinates of subcortical brain  
formations in developing animals. Zhur. vys. nerv. deiat. 15  
no.1:176-184 Ja-F '65. (MIRA 18:5)

1. Laboratoriya sravnitel'nogo ontogeneza nervnoy systemy Insti-  
tuta mozga ANU SSSR.

VOLOKHOV, A.A.; SHILYAGINA, N.N.

Stereotaxic brain atlas of young rabbits. Zhur. vys. nerv. deiat.  
16 no. 1:145-124 Ja-P '66 (MIRA 19:2)

1. Laboratoriya sravnitel'nogo ontogeneza nervnoy sistemy  
Instituta mozga AMN SSSR. Submitted August 15, 1965.

L 57477-65

ACCESSION NR: AP5014192

UR/0385/65/001/001/0084/0097

$$612.822.3+612.825.54+612.826+612.84$$

AUTHOR: Volokhov, A. A.; Shilyagina, N. S.

**TITLE:** Characteristic ontogenetic features in the functional development of the cortical and subcortical divisions of the visual analyzer

Journal evolyutsionnoy biokhimi : fiziologii, v. 1, no. 1, 1965, 34-97

visual analyzer, cortex, brain, subcortex, brain wave, central nervous system

[illegible]

1/3

2 57,77-65

ACCESSION NR: AP5014192

reticular formation is similar to that in the adult animal. Spontaneous electrical activity in the subcortical divisions of the visual analyzer undergo with age the same basic changes as in the visual cortex but sooner, i.e. it increases in amplitude and becomes stabilized in frequency. At 7-9 days of age, evoked potentials to photic stimulation are first recorded in the visual cortex, but not in the subcortical divisions. On the 11th and 12th day, the response of appropriate cortical divisions to light flashes appears in the visual cortex. Between the 11th and 12th day, a similar response also occurs in the auditory cortex, lateral geniculate nucleus, and midbrain reticular formation. The first signs of this response in the midbrain reticular formation appear only on the 12th day. In the early stages of postnatal ontogenesis the visual projection into the cortex, judging by the recruiting response, is more reactive than the subcortical specific and nonspecific subcortical formations. The author conjectures that the cortical divisions of the visual analyzer, which have marked functional maturity at an early age, may affect the subcortical structures by involving them in the autorotation response through the natural efferent pathways. Orig. art. has.

Card 2/3

L 57477-65

MISSION NR. \*P5014192

ASSOCIATION: laboratoriya sravnitel'nogo ontogeneza nervnoy sistemv Instituta  
molekulyarnoy biologii, Moscow (Laboratory of Comparative Ontogeny of the Nervous System,  
Molecular Biology Institute, Moscow)

DATE: 17Aug64

ENCL: 00

SUB CODE: LS

REF ID: C17

OTHER: 029

Card 3/3



L 2591-66 EWP(v)/EWP(k)/EWP(h)/EWP(l) - IJP(c) BC  
ACCESSION NR: AP5019405 UR/0103/65/026/007/1297/1301  
62-501.12

AUTHOR: Shilyak, D. D. (Belgrade)

TITLE: Application of the Mikhaylov criterion to the investigation of stability and oscillation ability of linear sampld-data systems

SOURCE: Avtomatika i telemekhanika, v. 26, no. 7, 1965, 1297-1301

TOPIC TAGS: automatic control theory

ABSTRACT: As the application of the Mikhaylov criterion (Avt. i telemekhanika, no. 3 1938) to analysis of sampled data systems involves complicated computations needed for construction of curves, a new method is suggested which uses Chebyshev-functions tables thus simplifying calculations. The characteristic polynomial of the sampled-data system is written in a vector form using first- and second-order Chebyshev functions. With tabulated values of these functions, stability curves and oscillation-ability hodographs are plotted. Orig. art. has: 4 figures and 18 formulas.

ASSOCIATION: none

Card 1/2

L 2591-66  
ACCESSION NR: AP5019405

SUBMITTED: 20Apr64

NO REF SOV: 004

ENCL: 00

OTHER: 005

SUB CODE: DP, IE

Card 2/2

27-2-6/19

*Shilyakov, N.*

AUTHOR: Shilyakov, N., Deputy Director of the Vladimir Technical School No 9

TITLE: Laboratory Work in Measuring (Laboratornyye raboty po izmereniyu)

PERIODICAL: Professional'no-Tekhnicheskoye Obrazovaniye, 1958, No 2 (153), pp 9-12, (USSR)

ABSTRACT: The article deals with the previously poor knowledge of many students in the use of measuring instruments. The author states that the reason for this was the lack of organization of practical laboratory work.

The new system has eliminated all existing deficiencies. Beginning with the school year 1956/57, the practical laboratory work is carried out in special buildings. The laboratories are supplied with the necessary equipment; instruments and complete sets of machine parts, individual tables, special cabinets, etc.

During the study of the subject "Measuring Instruments and the Technique of Measuring" the following laboratory work is carried out: 1) Measuring with beam-compasses of a 0.1 mm

Card 1/3

27-2-6/19

Laboratory Work in Measuring

accuracy, 2) measuring with beam-compasses with accuracies of 0.02 and 0.05 mm, 3) measuring with depth and surface gages, 4) measuring with a flat micrometer, 5) measuring with an inside micrometric caliper gage, 6) measuring with a universal angle gage, 7) measuring of main thread elements with a flat micrometer, a thread gage, a thread micrometer and by using the three-wire method, 8) measuring cramps and slots using end measuring plates, 9) measuring and checking machine parts with a dial gage and an inside caliper, 10) measuring with beam micrometers, 11) checking of parts with a straddle-gage, 12) measuring and checking parts with an instrumental microscope and using horizontal and vertical optical indicators and projectors, 13) determining the true dimension and work ability of machine parts (carried out by all kinds of instruments).

During their practical laboratory work the students get acquainted with the arrangement of appliances and instruments, their technical characteristic, their use and maintenance.

In conclusion the author mentions that in accordance with a decision passed by the Methodical Council of the Vladimir Oblast' Administration (Metodicheskiy sovet Vladimirovskogo oblastnogo upravleniya) the school is going to distribute

Card 2/3

Laboratory Work in Measuring

27-2-6/19

to Oblast' Schools a volume of detailed descriptions of 20  
problems from the practical laboratory work.  
There are 4 figures.

ASSOCIATION: Technical School No 9 Vladimir (Tekhnicheskoye uchilishche  
No 9, Vladimir)

AVAILABLE: Library of Congress

Card 3/3

SHILYAKOV, N.

Useful cooperation. Prof.-tekh. obr. 21 no.7:26-27 J1 '64. (MIRA 17:11)

1. Direktor vechernego professional'no-tehnicheskogo uchilishcha  
No.18, Vladimr.

SHILYAN V. A.

Prilozheniye k tekhnicheskoye. Prof.-tekhn. obr. 21 no.10:  
(MIRA 17:11)

1. Direktor pr. Otdel'noy tekhnicheskoye uchilishcha No.18,  
g. Leningrad.

SHILYAKOV, Nikolay Ivanovich; KCZ'MIN, N.V., red.; KOVAL'ZON, F.P.,  
red.; DORODNOVA, L.A., tekhn.red.

[Laboratory work and excursions for the course "General  
technology of metals"] Laboratorno-prakticheskie raboty i  
ekskursii po kursu "Obshchaya tekhnologiya metallov."  
Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1960.  
70 p. (MIRA 13:11)

1. Zamestitel' direktora tekhnicheskogo uchilishcha No.9  
g.Vladimira (for Shilyakov).  
(Metals)



SHILYAKOV, Nikolay Ivanovich; ALFIMOVA, I.A., nauchnyy red.; TIKHONOVA,  
N.V., red.; BARANOVA, N.N., tekhn. red.

[Laboratory work on lathes]Laboratornye raboty po tokarnomu delu.  
Moskva, Proftekhizdat, 1962. 127 p. (MIRA 16:3)  
(Turning)

SHILYAYEV, A., inzh.; VIGDOROVICH, A., inzh.

Semiautomatic machine for manufacturing capron parts. Avt.transp.  
41 no.4:52-53 Ap '63. (MIRA 16:5)  
(Plastics machinery)

VIGDOROVICH, A., inzh.; SHILYAYEV, A., inzh.

Machine for washing external parts of units. Avt. transp.  
41 no.6:33-34 Je '63. (MIRA 16:8)

PHASE I BOOK EXPLORATION NOV/5207

Vsesoyuznyy nauchnoissledovatel'skiy pedagogicheskiy institut.   
Primeneniye ultrazvukov i isledovaniya veshchestva (Utilization of Ultrasonics   
for the Investigation of Matter) Moscow, Izd. MGPI, 1966. 267 p. 1,600 copies   
printed. (Series: Nauchnyy, v. 11)

Ed. (Title page): V.F. Kuznetsov, Professor and B.B. Kuznetsov, Professor.

PURPOSE: This collection of articles is intended for physicists specializing   
in the physics of ultrasound.

CONTENTS: The collection of articles contributes the transactions of the VII Con-   
ference on the Applications of Ultrasonics to the Study of Materials, which was   
held at the Moscow Obshchepedagogicheskiy Institut (M.O.P.I.). Individual   
articles of the collection discuss various problems in the wave mechanics of   
ultrasound, the absorption and the propagation mechanics of ultrasonic waves in   
various media, the operating principle and design of generators and receivers of   
ultrasonic waves, the speed of sound and methods for its determination. Other   
articles deal with the applications of ultrasonics to investigations of the   
properties of materials. No particularities are mentioned. References accompany

Utilization of Ultrasonics (Cont.)

NOV/5207

Pulchinskaya, B.F., and B.B. Kuznetsov (Moscow Obshchepedagogicheskiy Institut Izd.   
M.O.P.I.). Propagation of Sound in Dispersive Media 163

Kal'vayev, B.L. (Moscow Pedagogical Institute). Determination of the Speed of Ultrasound   
From the Periodic Variations of the Phase Relations of Two Acoustic Pulses 173

Kuznetsov, B.F., and B.B. Kuznetsov (Moscow Obshchepedagogicheskiy Institut   
Izd. M.O.P.I.). Speed of Sound in Aqueous Solutions of NaCl 181

Kuznetsov, B.F., and B.B. Kuznetsov (Moscow Obshchepedagogicheskiy Institut   
Izd. M.O.P.I.). Investigation of the Propagation of Ultrasonic Waves in   
Three-Liquid Mixtures Which Have Different Interference Patterns 191

Kuznetsov, B.F., and B.B. Kuznetsov (Moscow Obshchepedagogicheskiy Institut   
Izd. M.O.P.I.). Application of Acoustic Measurements in the Study of   
Density Fluctuations in Liquids 201

Glinkin, A.D. (Moscow Obshchepedagogicheskiy Institut Izd. M.O.P.I.).   
Diffraction of Light on Damped Ultrasonic Waves 205

Parvovskiy, I.I., and V.F. Yakovlev (Moscow Obshchepedagogicheskiy Institut   
Izd. M.O.P.I.). New Method Using Interferometer to Measure Absorp-   
tion of Ultrasound 215

Shirerich, M.D. (Moscow Obshchepedagogicheskiy Institut Izd. M.O.P.I.).   
Investigation of the Speed of Propagation and Absorption of Ultrasound in   
Liquid Phase Methyl Alcohol Near the Critical Region 220

Malyavin, I.D. (Moscow Obshchepedagogicheskiy Institut Izd. M.O.P.I.).   
Investigation of Temperature Dependence of Sliding and Volumetric Viscosity   
of Certain Organic Liquids in the Critical Region 225

Bozlo, Y.F., and V.S. Zhitomirskiy (Moscow Obshchepedagogicheskiy Institut   
Izd. M.O.P.I.). Device for Measuring the Intensity of an Ultrasonic   
Field in Conducting Liquids 233

Parvovskiy, I.I., and V.F. Yakovlev (Moscow Obshchepedagogicheskiy Institut Izd.   
M.O.P.I.). Relaxation Processes in Van Der Waals Gases 239

Merkulov, I.D. (MOSI im. V.I. Ul'yanova (Lenin)). Integrated Electrophysical   
Institute Izd. V.I. Ul'yanov (Lenin). Absorption of Ultrasonic and Hyper-   
sonic Waves in Certain Crystals 247

Popov, V.P. Lecture Room Demonstrations With Ferrite Ultrasound   
Radiators 253

Bulletin 263

ANNEXES: Library of Congress (QC284.F62)

173

L 400/1-1 V(a)/- i(a)/-P(v)/T-WP(u)/EIL/EP(k) IUP(a) JD/NEW/EL

ACC NR: AR6014581

SOURCE CODE: UR/0081/65/000/021/M004/M004

AUTHORS: Shilyayev, A. S.; Drobyazko, G. A.; Yaroslavtsev, I. M.

TITLE: Ultrasound plating of ceramics

SOURCE: Ref. zh. Khimiya, Abs. 21M32

REF SOURCE: Tr. N.-i. tekhnol. in-t, vyp. 8, 1964, 103-106

TOPIC TAGS: ultrasonic welding, ultrasonic vibration, ceramic to metal seal, metal ceramic material, metal plating

ABSTRACT: Application of solders composed of (%): Sn<sup>1</sup> 90 + Zn 10 and Cd 18 + Sn 52 + Pb 30 onto ceramic (of the steatite type) radio components was performed by dipping the parts in the melts at temperatures exceeding that of the melting point by 20—50C, with simultaneous sonification of the melt. The vibration amplitude is 2.5 + 3  $\mu$ , sonification time 5—20 sec, cohesive force between metal-plating and ceramics is 150—200 kg/cm<sup>2</sup>. V. Kh. [Translation of abstract]

SUB CODE: 11

Card 1/1

SHILYAYEV, A.Ye., inzh.

Combined oil separator and dehumidifier of a new design. Energetik  
6 no.9:20-21 S '58. (MIRA 11:11)  
(Pneumatic tools) (Air--Purification)

SHILYAYEV, B. A. and PELEVIN, I. F.

"Control and Preparation of Raw Materials at Electrometallurgical Works,"  
Stal', No.6, pp. 45-46, 1946

Evaluation B-60428

SHILIYAYEV, B.A., inzhener.

The production of electric steel by remelting. Stal' 7 no.2:  
160-162 '47. (MLRA 9:1)

1. Elektrostal'.  
(Steel alloys--Electrometallurgy)



130-7-10/24

AUTHOR: Shilyayev, B.A. (Engineer)

TITLE: New Technology for Melting Stainless Steel (Novaya tekhnologiya vyplavki nerzhaveyushchey stali)

PERIODICAL: Metallurg, 1957, Nr 7, pp.20-21 (USSR)

ABSTRACT: Oxygen lancing is widely used in the USSR in the production of special steels, including stainless, in 20, 30 and 40 ton electric furnaces. An inter-works study group compared the practice at the "Elektrostal'", "Dneprospetsstal'", "Krasnyy Oktyabr'" and Chelyabinsk works and the Magnitogorsk metallurgical combine, and the data obtained are tabulated and discussed in this article. Data tabulated includes the particular method (if any) of using the oxygen, the furnace capacity, electricity and oxygen consumptions per ton of steel, duration of melting and percentage losses of chromium and titanium for melting type 1X18H9T steel. Recommendations of the study group on the following are set down: charge composition, way of using oxygen in the melting and oxidizing periods, addition of ferrochromium (without use of oxygen), deoxidation of the slag, analysis and correction of metal composition, addition of ferrotitanium. The recommendations if followed should give a time of 4.5 hours per heat in 20-40 ton electric furnaces

Card 1/2

SHILYAYEV, A.S.

3-8-17/34

AUTHOR: Shilyayev, A.S.

TITLE: A Device for Practical Training in Ultrasound (Ustanovka k prakticheskomu zanyatiyu po ul'trazvuku)

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 8, pp 71-72 (USSR)

ABSTRACT: The article points to the increasing role ultrasound has begun to play in biology, medicine and other fields. It even helps to treat or to trace diseases not easily recognizable, such as cancer.

Soviet medical industry is already working on several kinds of therapeutic ultrasonic apparatuses. One of them Y3Y -1 has been issued this year. It is therefore necessary to familiarize medical students with the physical properties of ultrasonic oscillations and methods of their application in medicine.

The Izhevsk Medical Institute has built an experimental device and compiled a manual on the subject "Ul'trazvuk i deystviye yego na veshchestvo" (Ultrasound and Its Effect on Matter). The Manual consists of 2 parts. The first part acquaints the student with the basic physical properties of ultrasonic oscillations. The methods of obtaining ultrasound,

Card 1/2

A Device for Practical Training in Ultrasound

3-8-17/34

its effect on the surroundings, and its utilization in medicine.

The second part contains a description of the experimental device and its method of operation. The article gives further particulars about the construction of the device and its use.

There are 2 Russian references.

ASSOCIATION: Izhevsk Medical Institute (Izhevskiy meditsinskiy institut)

AVAILABLE: Library of Congress

Card 2/2

SHILYAYEV, A. S.

"Experimental Investigations of the Characteristics of Ultrasound Propagation in Ternary Mixtures."

report presented at the 6th Sci. Conference on the Application of Ultrasound in the Investigation of Matter, 3-7 Feb 1958, organized by Min. of Education RSFSR and Moscow Oblast Pedagogic Inst. im. N. K. Krupskaya.

24(1)

PHASE I BOOK EXPLOITATION

SOV/3352

Vsesoyuzskaya konferentsiya, professorov i prepodavateley pedagogicheskikh institutov.

Primeneniye ul'trazvukov k issledovaniyu veshchestva; trudy konferentsii, vyp. 8 (Application of Ultrasonics in the Study of Matter: Transactions of a Conference, Nr. 8) Moscow, Izd. MOPI, 1959. 170 p. 1,000 copies printed.

Tech. Ed.: S. P. Zhitov.

PURPOSE: The book is intended for physicists, particularly those specializing in the field of ultrasonics.

COVERAGE: This is a collection of 12 articles dealing with problems of acoustics, ultrasonics, and molecular physics. References are given at the end of each article.

Fredvoditelev, A. S. Dispersion of Acoustic Waves in Rarefied Gases. Article I. 19

Zipir, A.-D., and V. P. Yakovlev. Pulse Method for Multiple Transformation of an Ultrasonic Signal in the Investigation of Liquid Media 63

Ilgunas, V., and E. Yaronis. On the Theory of Interferometers With Variable and Constant Length 67

Trelin, Yu. S. Some Results of Measurement of Ultrasonic Velocity in Gases by the Pulse Method 75

Volterovich, M. F., and D. B. Polashov. Investigation of Ultrasonic Velocity in Nitrogen Under Pressures up to 1050 kg/sq cm 81

Akhmetzhanov, E. O., and N. G. Shirkavich. Ultrasonic Velocity in Compressed Vapors of Ethyl Alcohol and Determination of Heat Capacities  $C_p$  and  $C_v$  91

Perapushko, I. I. Ultrasonic Propagation in Rarefied Gases 103

Kuchera, E. On Some Conditions for Applicability of Raoult's Law for Solutions 115

Shil'gajev, A. G., and B. B. Kudryashov. Ultrasonic Velocity and Surface Tension in Ternary Liquid Systems 121

Bessonov, M. B. Measuring Ultrasonic Velocity and Absorption in Solutions at High Temperatures 137 17

AUTHOR: Shilyayev, A.Ye., Engineer SOV-91-58-9-13/29

TITLE: An Oil and Moisture Separator of New Design (Maslovlagoot-delitel' novoy konstruktsii)

PERIODICAL: Energetik, 1958, Nr 9, pp 20-21 (USSR)

ABSTRACT: This separator is so designed that the air passes through several grids into various chambers, changes direction constantly and thus precipitates the moisture and oil it contains before passing on to the pneumatic apparatus. Experience has shown that this new type of oil and moisture separator functions better than the normal baffle type. There is 1 diagram.

1. Compressed air--Purification 2. Water--Separation 3. Oil  
--Separation

Card 1/1

PETROV, A.K.; SPERANSKIY, V.G.; KHIZHNICHENKO, A.M.; SHILYAYEV, B.A.;  
DANILOV, A.K.; BORODULIN, G.M.; ZAMOTAYEV, S.P.; MARKARYANTS, A.A.;  
SOLNTSEV, P.I.; SMIRNOV, Yu.D.; VAYNBERG, G.S.; OKOROKOV, N.V.;  
KOLOSOV, M.I.; SEL'KIN, G.S.; MEDOVAR, B.I.; LATASH, Yu.B.;  
YEFROYMOVICH, Yu.Ye.; VINOGRADOV, V.M.; SVED-SHVETS, N.N.;  
SKOROKHOD, S.D.; KATSEVICH, L.S.; SHTROMBERG, Ya.A.; MIKHAYLOV,  
O.A.; PATON, B.Ye.

Reports (brief annotations). Biul. TSNIICM no.18/19:67-68 '57.

(MIRA 11:4)

1. Zavod Dneprospetsstal' (for Speranskiy, Borodulin). 2. Chelyabin-  
skiy metallurgicheskiy zavod (for Khizhnichenko). 3. Uralmashzavod  
(for Zamotayev). 4. Trest "Elektropech'" (for Vaynberg). 5. Moskov-  
skiy institut stali (for Okorokov). 6. TSentral'nyy nauchno-issledo-  
vatel'skiy institut chernoy metallurgii (for Sel'kin, Sved-Shvets).  
7. Institut elektrosvarki AN USSR (for Paton, Medovar, Latash).  
8. TSentral'naya laboratoriya avtomatiki (for Yefroymovich,  
Vinogradov). 9. Gisogneupor (for Skorokhod). 10. Trest "Elektropech'"  
(for Katsevich). 11. Tbilisskiy nauchno-issledovatel'skiy institut  
okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for  
Shtromberg).

(Steel—Metallurgy)

DUBROV, N.F., kand. tekhn. nauk; MIKHAYLOV, O.A., kand. tekhn. nauk; FEL'DMAN, I.A.; DANILOV, A.M.; SOROKIN, P.Ya., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; BUTAKOV, D.K., kand. tekhn. nauk, dots.; SOYFER, V.M.; LATASH, Yu.V., mladshiy nauchnyy sotrudnik; ZAMOTAYEV, S.P.; BEYTEL'MAN, A.I.; SAPKO, A.I.; PETUKHOV, G.K., kand. tekhn. nauk; YEDNERAL, F.P., kand. tekhn. nauk, dots.; LAPOTYSHKIN, N.M., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; ROZIN, R.M.; NOVIK, L.M., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; LAVRENT'YEV, B.A.; SHILYAYEV, B.A.; SHUTKIN, N.I.; GNUCHEV, S.A., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; LYUDEMAN, K.F., doktor-inzh., prof.; GRUZIN, V.G., kand. tekhn. nauk; BARIN, S.Ya.; POLYAKOV, A.Yu., kand. tekhn. nauk; FEDCHENKO, A.I.; AGEYEV, P.Ya., prof., doktor; SAMARIN, A.M.; BOKSHITSKIY, Ya.M., kand. tekhn. nauk; GARNYK, G.A., kand. tekhn. nauk; MARKARYANTS, A.A., kand. tekhn. nauk; KRAMAROV, A.D., prof., doktor tekhn. nauk; TEDER, L.I.; DANILOV, P.M.

Discussions. Biul. TSNIICM no.18/19:69-105 '57. (MIRA 11:4)

1. Direktor Ural'skogo instituta chernykh metallov (for Dubrov).
2. Direktor Tsentral'nogo instituta informatsii chernoy metallurgii (for Mikhaylov).
3. Nachal'nik nauchno-issledovatel'skogo otdela osobogo konstruktorskogo byuro tresta "Elektropech'" (for Fel'dman).
4. Nachal'nik martenovskoy laboratorii Zlatoustovskogo metallurgicheskogo zavoda (for Danilov, A.M.).
5. Laboratoriya protsessov stalevareniya Instituta metallurgii Ural'skogo filiala AN SSSR (for Sorokin).

(Continued on next card)



DUBROV, N.P.—(continued) Card 2.

6. Ural'skiy politekhnicheskoy institut (for Butakov). 7. Starshiy inzhener Bryanskogo mashinostroitel'nogo zavoda (for Soyfer). 8. Institut elektrosvarki im. Patona AN URSS (for Iatash). 9. Nachal'nik Tsentral'noy zavodskoy laboratorii "Uralmashzavoda" (for Zamotayev). 10. Dnepropetrovskiy metallurgicheskoy institut (for Sapko). 11. Moskovskiy institut stali (for Yedneral). 12. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Gmachev, Lapotyshkin). 13. Starshiy master Leningradskogo zavoda im. Kirova (for Rozin). 14. Institut metallurgii im. Baykova AN SSSR (for Novik, Polyakov, Garnyk). 15. Nachal'nik tekhnicheskogo otdela zavoda "Bol'shevik" (for Lavrent'yev). 16. Starshiy inzhener tekhnicheskogo otdela Glavspetsstali Ministerstva chernoy metallurgii (for Shilyayev). 17. Zamestitel' nachal'nika tekhnicheskogo otdela zavoda "Elektrostal'" (for Shutkin). 18. Freybergskaya gornaya akademiya, Germanskaya Demokraticheskaya Respublika (for Lyudeman). 19. Zaveduyushchiy laboratoriyey stal'nogo lit'ya Tsentral'nogo nauchno-issledovatel'skogo instituta tekhnologii i mashinostroyeniya (for Gruzin). 20. Starshiy master elektrostaleplavil'nykh pechey Uralvagonzavoda (for Barin). 21. Zamestitel' nachal'nika elektrostaleplavil'nogo tsokha zavoda "Sibelektrostal'" (for Fedchenko). 22. Zaveduyushchiy kafedroy metallurgii stali i elektrometallurgii chernykh metallov Leningradskogo politekhnicheskogo instituta (for Ageyev). 23. Zamestitel' direktora Instituta metallurgii im. Baykova AN SSSR, chlen-korrespondent AN SSSR (for Samarin).

(Continued on next card)

DUBROV, N.F.---(continued) Card 3.

24. Nachal'nik laboratorii Tsentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii (for Bokshitskiy). 25. Zaveduyushchiy kafedroy elektrometallurgii Sibirskogo metallurgicheskogo instituta (for Kramarov). 26. Nachal'nik elektrostaleplavil'nogo tsokha Kuznetskogo metallurgicheskogo kombinata (for Todor). 27. Nachal'nik elektrometallurgicheskoy laboratorii Kuznetskogo metallurgicheskogo kombinata (for Danilov, P.M.).

(Steel--Metallurgy)

137-58-6-11779

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 82 (USSR)

AUTHOR: Shilyayev, B.A.

TITLE: A Standardized Process Procedure for the Production of Stainless Steel With Oxygen (Tipovaya tekhnologiya proizvodstva nerzhavayushchey stali s primeneniyem kisloroda)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18, pp 560-562

ABSTRACT: The use of O<sub>2</sub> in the smelting of stainless steel (SS) makes it possible to improve its quality and reduce cost per ton of ingots by 300 rubles, raise the life of the lining by 50 to 100%, and cut the length of a heat to 4.0-4.5 hours. However, it is economically unreasonable to use O<sub>2</sub> when the charge contains large amounts of V, Nb, and W, owing to the loss of these elements by oxidation. Note is taken of special features of the melting of SS in 20-40-ton electric furnaces using O<sub>2</sub> at different plants, and a standardized process procedure is suggested which is characterized by the following: a charge consisting of 60-75% SS scrap and 15-25% Si-steel scrap, use of O<sub>2</sub> to speed melt-down 1 to 1.5 hour after the furnace is

Card 1/2

137-58-6-11779

A Standardized Process (cont.)

turned on, blowing of the bath with water-cooled lances or tuyeres until the charge has been fused by the  $O_2$ , addition of red-hot Fe-Cr after the blow has been terminated, without slagging off, deoxidation of the slag by Si-Cr and 45% Fe-Si in a mixture with 2-3% lime and Si-Ca, adjustment of the Cr content of the metal to 17-18% and of the Ni to 10-10.3% for sheet and to 10.4-10% for tube stock, introduction of Mn to the bath in the form of low-carbon Si-Mn or Fe-Mn, addition of Fe-Ti to the furnace 8-10 min before tapping with little slag in the furnace, ladle temperature of the metal  $>1560^{\circ}C$ , and bottom pouring of the SS into uncoated molds, with use of CCl<sub>4</sub>. Examination is made of measures directed toward increasing the effectiveness of the use of  $O_2$  in melting SS, improving melting procedures, and improving the quality of the product.

A.Sh.

1. Stainless steel--Production
2. Furnaces--Operation
3. Oxygen--Effectiveness

Card 2/2

SOV-120-58-1-15/43

AUTHORS: Berlovich, E. Ye. and Shilyayev, B. A.

TITLE: A Study of the Time Properties of Photomultipliers using the Method of Delayed Coincidences (Issledovaniye vremennykh svoystv fotomnozhiteley metodom zaderzhannykh sovpadeniy)

PERIODICAL: Priory i Tekhnika Eksperimenta, 1958, Nr 1, pp 62-68 (USSR)

ABSTRACT: The method of delayed coincidences was applied to the determination of the rise time of photoelectric multipliers. For the photomultipliers FEU-1V the rise times are between  $10^{-9}$  and  $2 \times 10^{-9}$  while for the photomultipliers FEU-19 the rise time is of the order of  $4.5 \times 10^{-9}$  sec. The effect of the rise time of a current pulse from a photomultiplier on time measurements was investigated. The following results were obtained: (a) the time constant for the luminescence of stilbene measured, using the FEU-1V photomultiplier, was found to be  $5.7 \times 10^{-9}$  sec; (b) the half-life of the excited states of the nuclei of  $\text{Pr}^{141}$  ( $T_{1/2} = 2.0 \times 10^{-9}$  sec) and  $\text{Tl}^{203}$  ( $T_{1/2} = 2.7 \times 10^{-10}$  sec). It was shown that the efficiency of the coincidence scheme using FEU-1V was close to

Card 1/2

SOV-120-58-1-15/43

A Study of the Time Properties of Photomultipliers using the Method of Delayed Coincidences.

100% for  $2\tau_0 = 7 \times 10^{-9}$  sec while in the case of the FEU-19 saturation sets in at  $2\tau_0 = 2.6 \times 10^{-8}$  sec. There are 10 figures, 8 references, of which 5 are English, 3 are Soviet.

ASSOCIATION: Fiziko-tekhnicheskii institut AN SSSR (Institute of Physics and Technology of the Academy of Sciences, USSR)

SUBMITTED: May 11, 1957.

1. Coincidence counting--Equipment
2. Photomultipliers--Performance
3. Photomultipliers--Test results
4. Stilbenes--Luminescence
5. Praseodymium isotopes (Radioactive)--Half life

Card 2/2

GOIOVNYA, V.Ya.; ZALYUBOVSKIY, I.I.; SHILYAYEV, B.A.

Sensitive current integrator. Prib. i tekhn. eksp. 6 no.1:99-101  
Ja-F '61. (MIRA 14:9)

1. Fiziko-tekhnicheskii institut AN USSR.  
(Pulse techniques (Electronics))

GOLOVNYA, V.Ya.; KLYUCHAREV, A.P.; SHILYAYEV, B.A.

Elastic scattering of 5.45 mev. protons on zirconium nuclei. Zhur.  
eksp.i teor.fiz. 41 no.1:32-34 J1 '61. (MIRA 14:7)

1. Fiziko-tekhnicheskiy institut AN Ukrainskoy SSR.  
(Protons—Scattering) (Zirconium)



S/056/63/044/004/012/044  
B102/B186

AUTHOR: Golovnya, V. Ya., Klyucharev, A. P., Shilyayev, B. A.,  
Shlyakhov, N. A.

TITLE: Elastic scattering of 4.2-Mev protons from nickel isotopes

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,  
no. 4, 1963, 1184 - 1186

TEXT: The angular distributions of 4.2-Mev protons elastically scattered from  $Ni^{58,60,62,64}$  nuclei were measured in the interval  $30 - 80^\circ$  in the lab. system. The method was the same as described previously (ZhETF, 41, 32, 1961). A CsI(Tl) scintillator crystal with an  $\Phi\Phi Y-C$  (FEU-S) photomultiplier was used for detection; the targets were free metallic foils ( $1.0-1.5\mu$ ) enriched to 95%. The total error was  $\pm 1\%$ . The results are shown in a graph, with  $\sigma_{exp}/\sigma_R$  plotted versus  $\theta$ , i.e. for each angle the number of particles scattered by the nickel target under investigation was compared with the corresponding value for gold, for which at the given energies the distribution follows Rutherford's formula (Phys. Rev. 1602, 1957). The distribution curves obtained for  $Ni^{58}$  and  $Ni^{60}$  differ greatly from those for Card 1/2

Elastic scattering of 4.2-Mev...

S/056/63/044/004/012/044  
B102/B186

Ni<sup>62</sup> and Ni<sup>64</sup>. In the first case  $\sigma_{\text{exp}} > \sigma_R$  for angles below 60 - 70°, and the angular distribution has a maximum; in the second case there is always  $\sigma_{\text{exp}} < \sigma_R$ , and  $\sigma_{\text{exp}}$  decreases with increasing  $\theta$ . This difference can be explained when the nuclear surface of Ni<sup>62</sup> and Ni<sup>64</sup> is assumed to be much more smeared out as compared with that of Ni<sup>58</sup> and Ni<sup>60</sup>; even the surface of Ni<sup>60</sup> is more distinct than that of Ni<sup>58</sup>. There is 1 figure.

SUBMITTED: November 21, 1962

Card 2/2

CHUDOVNIA, V.Ya.; ELISCHKEV, A.P.; SHILYAYEV, B.A.

Elastic scattering of 3.4 - 4.2 Mev. protons on  $Ni^{62}$  and  
 $Ni^{64}$  isotopes. Zhur. eksp. i teor. fiz. 45 no.6:1727-1730  
D 163. (MIRA 17:2)

A, V. Ya.; KLYUCHAREV, A. P.; SHILYAYEV, B. A.; SHLYAKHOV, N. A.

"Elastic Scattering of Protons with Energies 3.0 - 4.0 MeV on Cobalt and Isotopes of Chromium, Iron, and Copper."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

KhFTI (Ukrainian Physico Technical Inst, Khar'kov)

L 41005-65 ENT(m) Feb DIAAP  
ACCESSION NR: AP5007705

S'0367/65/COI/001/0048/0054

19  
148

AUTHOR: Golovnya, V. Ya.; Klyucharev, A. P.; Shilyayev, B. A.; Shiyakhov, N. A.

TITLE: Elastic scattering of low-energy protons on isotopes of chromium, iron, nickel, and cobalt

SOURCE: Yadernaya fizika, v. 1, no. 1, 1965, 48-54

TOPIC TAGS: nuclear radius, low energy proton, proton scattering, proton elastic scattering, nuclear force range, chromium target, iron target, nickel target, cobalt target

ABSTRACT: The systematic study of elastic scattering of low-energy protons on atomic nuclei can supply important data about the structure of the nuclear surface (ZhETF, 34, 1960, 1963). The authors also showed earlier (ZhETF, 45, 1727, 1963), using the initial deviations of the angular distribution curves of elastic proton scattering from the Rutherford law in its quasiclassical approximation, that the short-range nuclear interactions of the incident protons on  $Ni^{52}$  and  $Ni^{64}$  seem to exceed the usual nuclear radii  $R_0$  by a factor of 3. Before one could attempt a correct interpretation of these results, one had to possess data from analogous

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ACCESSION No. AP5007705

experiments on nuclei with known sharp and washed-out boundaries. Consequently, the distributions of protons with energies of 3.00-3.56 MeV elastically scattered from the investigated nuclei at angles of 54, 56, 58, 60, 62, 64, and 66° were investigated in the region of 40-90° angles. The results obtained show that the angular distribution curves in this domain of angles are very sensitive to the shape of the nuclear surface. The nuclear interaction radii calculated from the experimental data do not vary appreciably with the change in the mass number. The results are collected in Fig. 1 of the article. The authors are indebted to the filling of the nuclear targets with the investigated nuclei. The authors thank V. N. Medyanik and A. A. Tsigikalo, Yu. A. Platchenko, and the personnel of the ESU for maintaining a stable operation of the particle accelerator. Orig. art. has: 5 formulas and 4 figures.

Ukrainian Institute of the Academy of Sciences, Ukrainian SSR

SUBMITTED: 03 Jun 64

ENCL: 01

SUB CODE: NF

NO REF SOV: 004

OTHER: 001

P'YANKOV, F.P.; SHILYAYEV, E.V.

Efficient method for manufacturing bushings of nonferrous metals.  
Mashinostroitel' no.11:30 N '61. (MIRA 14:11)  
(Extrusion (Metals))

P'YANKOV, F.P.; SHILYAYEV, E.V.

A rational method of making bushes of nonferrous metals.  
Ratsionalizatsiia no.2:26 '62.



1911, 1.1.

Map of mineral springs and watering places for farm animals. In. 1911.  
No. 2:93-150 '17. (1911-1917)  
(Onsk Province--Mineral waters)

SHILYAYEV, F.I., inzh.

Using waters with high mineral content for watering livestock.  
Zhivotnovodstvo 19 no.12:74-76 D '57. (MIRA 10:12)  
(Omsk Province--Water, Underground)  
(Cattle--Watering) (Swine--Watering)

POSHAKINSKIY, V.R.; SHILYAYEV, I.I.

Stand for covering the passenger seat cushions with "tekstovinit."  
Pats. predl. na gor. elektrotransp. no.9:37-38 '64.

(MIRA 18:2)

1. Trolleybusnyy zavod Tramvayno-trolleybusnogo upravleniya Lenin-  
grada.

BRUCELLOSIS - JK

AM 00 0025

S/0016/65/000/003/0148/0148

Authors: T. A.; Var'vodina, T. A.; Shilyayev, L. P.

Increasing the effectiveness of the biological investigation  
with respect to brucellosis

Journal: Zhurnal mikrobiologii, epidemiologii i immunobiologii,  
No. 3, 1965, 148

Animals: albino mouse, guinea pig, hamster, brucella,  
vaccine, bacteriologic culture method,  
vaccine

**ABSTRACT:** The authors tried to increase the sensitivity of  
experimental animals to brucellosis infections and thereby facilitate  
the identification of causative agents. Guinea pigs, albino mice,  
hamsters were infected subcutaneously with the highly  
virulent strain No. 123 or strain No. 124 in doses of  
1,000 bacteria cells. The bacterial doses (1 ml volume)  
were mixed with an equal volume of diluted chicken egg yolk prepared  
in advance. Four guinea pigs, 4 golden hamsters,

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ACCESSION NR: AP5008025

and 20 albino mice were infected with each dose. Animals were killed on the 10, 20, and 30 days, and cultures taken from the organs and tissues in glucose-glycerine media. Results show that the virulence of the agent with chicken egg yolk increased significantly. Intensive isolation of the causative agent from the organs of the infected animals to the 10th day after infection and continued for 30 days. The results of the isolation proved to be the best. The results of the isolation: None.

STATION: Firsizskaya protivochumnaya stantsiya (Kirghiz Antiplague Station)

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

CHARTER: 000

OTHER: 000

Card 2/2

LIPKIN, M.Ye.; ARTYKOV, M.S.; ISAYEV, Yu.V.; POLULYAKH, P.A.; VARIVODINA, T.A.;  
SHILYAYEV, L.F.; PUN'KO, T.A.; ANDREYEVA, A.P.; BAKULINA, L.I.;  
ABRAMOVA, S.G.; KLIMOVA, T.K.; YEGOROV, V.A.; KREPEYEV, M.I.; KABIROVA,  
M.B.; DASHEVSKIY, V.V.; SORKIN, Yu.I.; KOLENDOVICH, A.I.; SERGETEVA,  
L.I.; NAGAYEV, V.N.; NESTEROVA, G.N.; ALEKSEYEVA, N.A.; GOLUBEVA, V.N.;  
ANISIMOVA, T.I.; OVASAFYAN, O.V.; GALOYAN, V.O.; ARAKELYAN, K.A.

Abstracts of articles received by the editors. Zhur.mikrobiol., epid.  
i immun. 42 no.3:147-152 Mr '65. (MIRA 18:6)

SHILYAYEV, M.; PLAVIN, B., inzh.; CHERTKOV, N.; CHARKIN, P.; BURNAZYAN, G.;  
MIKHAYLIK, P.; GONCHAROV, A.; CHAPLIN, I., inzhener-tekhnolgo;  
KROPOTIN, N., starshiy tekhnolog

Around the country. Izobr.i rats. no.6:32-33. Je '59.

(MIRA 12:9)

1. Predsedatel' soveta Vsesoyuznoy organizatsii izobretateley i ratsionalizatorov stankostroitel'nogo proizvodstva, g. Izhevsk (for Shilyayev).
2. Tsentral'noye byuro tekhnicheskoy informatsii g. Vil'nyus (for Plavin).
3. Sekretar' soveta Vsesoyuznoy organizatsii izobretateley i ratsionalizatorov Aizharskoy ASSR, g. Batumi (for Chertkov).
4. Chlen Yaroslavskogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Charkin).
5. Sekretar' Armyskogo respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Yerevan (for Burnazyan).
6. Chlen prezidiuma L'vovskogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Mikhaylik).
7. Predsedatel' zavodskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Leningrad (for Goncharov).
8. Novo-Kramatorskiy mashinostroitel'nyy zavod, g. Kramatorsk (for Chaplin).
9. Izhevskiy mashinostroitel'nyy zavod, g. Izhevsk (for Kropotin).

(Efficiency, Industrial)

1. BEMOVA, Docent F. F.; SHILYAYEV, P. N., Eng.
2. USSR (600)
4. Steam Boilers, Marine
7. Calculation of the strength of cylindrical elements of welded marine steam boilers, Rech. transp., 12, No. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.



1. BENUA, F.; SHILYAYEV, P., Eng.
2. USSR (600)
4. Ships
7. Calculation for strength of ships', brace-free flat bottoms which are subject to inside pressure, Mor.flot, 12, No. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

BENUA, P., kandidat tekhnicheskikh nauk, dotsent; SHILYAYEV, P., inzhener.

Strength calculation of cylindrical elements for marine steam-boilers,  
functioning at a wall temperature exceeding 400°C. Mor. i rech. flot 13  
no. 3:14-16 Jy '53. (MLRA 6:8)

(Steam boilers, Marine)

SHAYAN, P. A.

"Investigation of Stresses and an Increase in the Precision of the Methodology for Calculating the Strength of Some Elements of Ship's Welded Steam Boilers During Their Construction and Repair." Cand Tech Sci, Leningrad Inst of Water Transport Engineers, Leningrad, 1954. (RZhMekh, Mar 55)

SC: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

SHILYAYEV, P., inzhener

Calculating the strength of flat boiler walls reinforced by braces.

Mor.flot 15 no.9:17-20 S'55.

(MIRA 8:11)

(Boilers, Marine)

SILVAYEV, AN

THE NEW YORK PUBLIC LIBRARY



BENUA, F.F., kandidat tekhnicheskikh nauk; SHILYAYEV, P.N., kandidat  
tekhnicheskikh nauk.

Increasing effective steam pressure in KB-5 boilers. Rech.transp.  
15 no.8:22-23 Ag '56. (MLRA 9:11)  
(Boilers, Marine)

SHILYAYEV, P., kandidat tekhnicheskikh nauk.

Increasing reduced steam parameters in marine steam power plants.  
Mor.flot 17 no.2:15-17 P '57. (MIRA 10:3)

1. Leningradskiy institut inzhenerov vodnogo transporta.  
(Boilers, Marine)

SHILYAYEV, P.N., kand.tekhn.nauk; ORLOV, A.A., inzh.

Experimental study of the stress condition of steam boiler furnaces  
based on studies of the boiler of the steamer "Borodino". Trudy  
LIIVT no.26:310-312 '59. (MIRA 14:9)  
(Boilers, Marine)



KRAKOVSKIY, Ivan Ivanovich, prof.; NESTEROV, Yu.F., retsenzent;  
SHILYAYEV, P.N., retsenzent; NARKEVICH, V.F., red.; KAN,  
P.M., red. izd-va; RIDNAYA, I.V., tekhn. red.

[Auxiliary marine engines] Sudovye vspomogatel'nye mekhanizmy.  
Moskva, Izd-vo "Rechnoi transport." Pt.2. [Marine pumps] Sudovye nasosy. 1961. 174 p. (MIRA 15:1)  
(Marine engineering) (Pumping machinery)

LAKHANIN, Vladimir Vladimirovich, prof., doktor tekhn. nauk; KHOZE, Anatoliy Naumovich, dots., kand. tekhn. nauk; LEONT'YEVSKIY, Ye.S., inzh., retsenzent; KONOVALOV, Ye.S., kand. tekhn. nauk, retsenzent; SHILYAYEV, P.N., kand. tekhn. nauk, retsenzent; FOTAPOV, N.S., inzh., red.; SHLENNIKOVA, Z.V., red. izd-va; BODROVA, V.A., tekhn. red.

[General heat engineering; thermodynamics and marine power plants] Obshchaia teplotekhnika; termodinamika i sudovye silovye ustanovki. Moskva, Izd-vo "Rechnoi transport," 1961. 300 p. (MIRA 15:2)

(Marine engines) (Thermodynamics)

SHELZAYEV, P.N., kand.tekhn.nauk

Methods and norms for calculating the strength of marine steam  
pipes. Trudy LITV no.75:39-46 '64.

(MIRA 78:10)

SHIMKHOVICH, I.S.. dots.; SHILYAYEV, V.G.

Cataract of both eyes resulting from brief exposures to an ultra-high-frequency electromagnetic field of high density. Vest.oft.  
72 no.4:12-16 J1-Ag '59. (MIRA 13:4)

1. Kafedra oftal'mologii Voenno-meditsinskoy ordenal Lenina akademii  
imeni S.M. Kirova (nach. - prof. B.L. Polyak)

(CATARACT etiol.)  
(OCCUPATIONAL DISEASES)  
(ELECTRICITY eff., inj.)

VARANOVSKIY, YA.P.; DULYAYEV, V.G., kand. med. nauk

Infrared ophthalmologic device, Voen.-med. zhurn. no.6:75 '64.  
(MIRA 18:5)

KHOKHLOV, P.P., prof.; SHILYAYEVA, A.D.

Six years experience in using parietal preserved peritoneum of cattle in the treatment of thermal burns. Ortop.travm.i protez.  
20 no.4:39-44 Ap '59. (MIRA 13:4)

1. Iz kliniki gospiatal'noy khirurgii (sav. - prof. P.P. Khokhlov)  
Karagandinskogo meditsinskogo instituta (dir. - dotsent P.M.  
Pospelov).

(BURNS, surg.

preserved parietal peritoneum from cattle in  
ther. of thermal burns (Rus))

(PERITONEUM, transpl.  
same)

KARASEVA, Ye.V.; SHILYAYVA, I.M.

Construction of burrows by a common hamster as related to  
its age and the time of the year. Biol. MOIP. Otd. Biol. 70  
no. 6:30-39 Nov '65 (MIRA 19:1)

FROST, Andrey Vladimirovich, prof. [deceased]. Prinimali uchastiye:  
BUJSHMAKIN, I.N.; VVEDENSKIY, A.A.; GRYAZNOV, V.M.; DEMENT'YEVA,  
M.I.; DINTSES, A.I.; DOBRONRAVOV, R.K.; ZHARKOVA, V.R.; ZHERKO,  
A.V.; IPAT'YEV, V.N.; KVIATKOVSKIY, D.A.; KOROBV, V.V.; MOOR,  
V.G.; NEMTSQV, M.S.; RAKOVSKIY, A.V.; REMIZ, Ye.K.; RUDKOVSKIY,  
D.M.; RYSAKOV, M.V.; SEREBRYAKOVA, Ye.K.; STEPUKHOVICH, A.D.;  
STRIGALEVA, N.V.; TATEVSKIY, V.M.; TILICHEYEV, M.D.; TRIFEL',  
A.G.; FROST, O.I.; SHIL'YAYEVA, L.V.; SHCHEKIN, V.V.; DOLGOPOLOV,  
N.M., sostavitel'; GERASIMOV, Ya.I., otv.red.; SMIRNOVA, I.V., red.;  
TOPCHIEVA, K.V.; YASTREBOV, V.V., red.; KONDRASHKOVA, S.F., red.  
izd-va; LAZAREVA, L.V., tekhn.red.

[Selected scientific works] Izbrannye nauchnye trudy. Moskva,  
Izd-vo Mosk.univ., 1960. 512 p. (MIRA 13:5)

1. Chlen-korrespondent AN SSSR (for Gerasimov).  
(Chemistry, Physical and theoretical)



ORZHESHKOVSKIY, V.V.; SHILYAYEVA, T.I.; POPOVA, A.D.

Significance of the Thorn test in ACTH treatment of patients with  
infectious nonspecific polyarthritis. Sov.med. 23 no.11:43-45 N '59.  
(MIRA 13:3)

1. Iz Sochinskogo nauchno-issledovatel'skogo instituta revmatizma  
(direktor - prof.M.M. Shikhov) Ministerstva zdravookhraneniya RSFSR.  
(ARTHRITIS, RHEUMATOID therapy)  
(CORTICOTROPIN therapy)  
(ADRENAL CORTEX funct. tests)

SOLOV'YEVA, T.P.; SHILYAYEVA, T.I.

Glycoproteins in the blood serum in patients with infectious non-specific polyarthrits. Vop.med.khim. 6 no.5:536-540 8-0 '60.  
(MIRA 14:1)

1. Biochemical Laboratory, Institute of Balneology, Sochi.  
(ARTHRITIS, RHEUMATOID) (GLYCOPROTEINS)

TIKHONRAVOV, V.A.; ORZHESHKOVSKIY, V.V.; SOLOV'YEVA, T.P.; SHIL'AYEVA, T.I.

Protein formula of blood serum in patients with infectious nonspecific  
polyarthritis and its changes during therapy. Terap. arkh. 32  
no. 4:49-53 S '60. (MIRA 14:1)  
(ARTHRITIS, RHEUMATOID) (BLOOD PROTEINS)

TIKHONRAVOV, V. A.; SOLOV'YEVA, T. P.; VLADIMIROVA, Z. Ya.;  
SHILYAYEVA, T. I. (Sochi)

Urinary excretion of 17-ketosteroids in rheumatism and infectious nonspecific polyarthritis during treatment with cortisone, ACTH, pyrazolidine and salicylates. Probl. endok. i gorm. 8 no.3: 82-86 My-Je '62. (MIRA 15:6)

1. Iz biokhimicheskoy laboratorii (zav. - dotsent V. A. Tikhonravov), kliniki aktivnogo revmatizma i kliniki revmatoidnykh artritov (zav. - prof. M. M. Shikhov) Sochinskogo instituta revmatizma.

(RHEUMATIC FEVER) (ARTHRITIS, RHEUMATOID)  
(STEROIDS) (CHEMOTHERAPY)

LYSOV, V.P., kand. med. nauk; ORZHESHKOVSKIY, V.V., kand. med. nauk;  
SHILYAYEVA, T.I. (Sochi)

Anaphylactic shock following repeated use of the adreno-  
corticotropic hormone (ACTH). Klin. med. 41 no.6:140-141  
Je '63. , (MIRA 17:1)

1. Iz Sochinskogo nauchno-issledovatel'skogo instituta  
kurortologii i fizioterapii (dir. - zasluzhennyy vrach  
RSFSR N.Ye. Romanov) Ministerstva zdravookhraneniya RSFSR.

*Shilyayeva, Ye. V.*

USSR/~~Medicine~~ - Preventive, in Industry

FD-1066

Card 1/1 Pub. 102-3/11

Author : \*Shilyayeva, Ye. V.

Title : Experience of medico-sanitary section of the "Kopeysk-Ugol'" trust in reducing incidence of illness

Periodical : Sov. zdrav., 2, 14-15, Mar-Apr, 1955

Abstract : Mechanization of heavy mining operations, improvement in the working and living conditions, and excellent quality of medical and sanitary service resulted in lower morbidity and traumatism among coal miners in the Kopeysk area of Chelyabinskaya Oblast. Physicians of all specialties spend 1 1/2 hours each week in preventive medical work; they are greatly assisted in this work by trade union organizations. Medical personnel of subprofessional level of hospitals and outpatient clinics spend 4 hours of their time each week in performing medical and sanitary work; they are assisted in their work by the "sanitation active". All miners are thoroughly examined twice a year and discovery of any infection is treated early in outpatient clinics: this reduces time lost from production. Newly arrived workers undergo a complete physical examination before they are assigned to duty.

Institution: (\*Chief) Medico-Sanitary Section (Kopeysk, Chelyabinskaya Oblast)

Submitted : January 24, 1955

SILYKRUT, D.I.

SUBJECT USSR/MATHEMATICS/Differential equations CARD 1/2 PG - 381  
 AUTHOR SILYKRUT D.I.  
 TITLE On a problem of heat conduction for two media.  
 PERIODICAL Priklad. Mat. Mech. 20, 284-288 (1956)  
 reviewed 11/1956

For the determination of the temperatures  $\theta_1(x,t)$  and  $\theta_2(x,t)$  of two media  
 let the following system and boundary value conditions be given:

$$\frac{\partial \theta_1}{\partial t} = \frac{\partial}{\partial x} \left[ k_1(x) \frac{\partial \theta_1}{\partial x} \right] \quad \text{for } x \geq 0, t \geq 0$$

$$\frac{\partial \theta_2}{\partial t} = \frac{\partial}{\partial x} \left[ k_2(x) \frac{\partial \theta_2}{\partial x} \right] \quad \text{for } x \leq 0, t \geq 0$$

$$\theta_1(x,0) = \theta_2(x,0) = 0; \quad [\theta_1(x,t)]_{x=+0} = [\theta_2(x,t)]_{x=-0};$$

$$- \lim_{x \rightarrow +0} \left[ \lambda_1(x) \frac{\partial \theta_1}{\partial x} \right] + \lim_{x \rightarrow -0} \left[ \lambda_2(x) \frac{\partial \theta_2}{\partial x} \right] + h\theta_1(0,t) = w(t);$$

Priklad. Mat. Mech. 20, 284-288 (1956)

CARD 2/2

PG - 381

$$k_y(x) = \frac{\lambda_y(x)}{c_y \xi_y} ; \quad \lim_{x \rightarrow +\infty} \theta_1(x, t) = 0 ; \quad \lim_{x \rightarrow -\infty} \theta_2(x, t) = 0.$$

By aid of the Laplace transformations the author obtains solutions for all those cases where  $w(t)$  possesses a Laplace transform. Solutions are line integrals in the complex domain and are suitable for the determination of temperatures for each  $t$  and even for qualitative investigations.

INSTITUTION: Ljvov.



SOKOLOVA, Ye.I. [deceased]; BRAYNZAROVA, G.T.; BOCHANOVA, N.S.;  
ZHUKHAREVA, V.I.; ZAKUMBAYEV, A.K.; ISAYEVA, M.G.;  
IMANBAYEVA, U.A.; KRIVOSHEYEV, Yu.O.; KUDAYBERGENOV,  
Zh.D.; RAKHMETCHIN, S.; TYUTYUKOV, F.M.; SHIM, P.S.;  
LAZARENKO, Ye.I.; GARANKINA, A.I.; D'YACHENKO, R.;  
PETUKHOV, R.M., kand. tekhn. nauk, nauchn. red.;  
SHUPOVA, M.A., red.; LEVIN, M.L., red.; ROROKINA, Z.P.,  
tekhn. red.

[Food industry of Kazakhstan] Pishchevaia promyshlennost'  
Kazakhstana. Alma-Ata, Izd-vo AN KazSSR, 1963. 172 p.

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut eko-  
nomiki.

(Kazakhstan--Food industry)

ASHIMBAYEV, Tuyembay Ashimbayevich, nauchn. sotr.; BAYTULESHEV, Tursunbek Baytuleshevich, nauchn. sotr.; KOVALENKO, Tamara Ivancvna, nauchn. sotr.; SHIM, F.S., kand. ekon. nauk, otv. red.; LEVIN, M.L., red.

[Labor productivity of Kazakhstan's machinery industry and the factors of its growth] Proizvoditel'nost' truda v mashinostroenii Kazakhstana i faktory ee rosta. Alma-Ata, Nauka, 1965. 209 p. (MIRA 18:6)

1. Institut ekonomiki AN Kazakhskoy SSR (for Ashimbayev, Baytuleshev, Kovalenko).



SHIMA, V. [Sima, V.]

Surgical treatment of periappendicular infiltrate and abscess.  
Khirurgiia 38 no.10:97-100 O '62, (MIRA 15:12)

1. Iz khirurgicheskogo otdeleniya (zav. - doktor V. Vakhtfeidl)  
bol'nitsy v Karlovykh Varakh (Chekhoslovakiya).  
(APPENDICITIS) (ABDOMEN—ABSCESS)

SHEN, Ye, I.

"Colorimetric Method of Determining the Dichloro Diphenyl Trichloro Ethane DDT in the Air and Dry Preparations," Hig. i San., No. 6, 1949. 2 Mbr., Kiev Sci. Res. Inst. Hygiene & Prophylaxis Disease, -1949-.

5(4)

SOV/78-4-5-12/46

AUTHORS:

Babko, A. K., Shinadina, L. G.

TITLE:

Investigation of the Stability of the Fluorine Complexes of Some Metals (Izucheniye prochnosti ftoridnykh kompleksov nekotorykh metallov)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 5, pp 1060-1066 (USSR)

ABSTRACT:

The present paper gives results obtained by the application of the metal-indicator method (Ref 1) for the determination of the relative stability of the fluorine complexes of some metals. As indicator systems  $\text{Fe}^{3+}\text{-SCN}^-$  and  $\text{Ti}^{3+}\text{-H}_2\text{O}_2$  were used. The

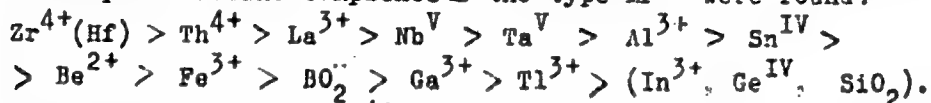
ferric thiocyanate indicator system was used in connection with the following elements:  $\text{Ga}^{3+}$ ,  $\text{H}_3\text{BO}_3$ ,  $\text{Be}^{2+}$ ,  $\text{Al}^{3+}$ ,  $\text{Ta}^{5+}$ ,  $\text{Nb}^{5+}$ ,  $\text{La}^{3+}$  and  $\text{Ti}^{3+}$  (Table 1). Mode of operation: In a 50 ml-measuring flask 0.3 ml 0.1 molar solutions  $\text{Fe}(\text{NO}_3)_3$  and a 5 ml 10% ammonium thiocyanate solution were added. In these solutions various quantities (of 0.5-4 ml) a 1-molar sodium fluoride solution were added and adjusted to 50 ml with 0.2 N nitric acid. The optical density of the solution was measured by means of the spectrophotometer FM. Figure 1 shows the calibration curve of the dependence of the optical density of the ferric thiocyanate indicator system on the concentration of the sodium fluoride. The results obtained make it possible to determine

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SOV/78-4-5-19/46

Investigation of the Stability of the Fluorine Complexes of Some Metals

the relative stability of fluorine complexes in all metals. The following series for the determination of the stability of simple fluorine complexes of the type  $MF^{n+}$  were found:



The indicator system  $\text{Ti}^{4+}-\text{H}_2\text{O}_2$  is suited for the purpose of investigating the more stable fluorine complexes. The method employed is similar to that of the ferric thiocyanate system. Figure 2 shows the calibration curve for the dependence of the optical density of the titanium-ferrooxide indicator system on the concentration of sodium fluoride. Elements forming weak complexes, such as boron cannot be investigated by means of this system. For some complexes the approximate values of the stability constant were determined and found to be in agreement with the values mentioned in publications ( $K_{\text{AlF}^{2+}} = 4.10^{-7}$  and  $K_{\text{BeF}^{+}} = 4.10^{-6}$ ). There are 2 figures, 2 tables, and 11 references, 6 of which are Soviet.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko

(Kiyev State University imeni T. G. Shevchenko)

SUBMITTED: February 21, 1958

Card 2/2

VOTRUBA, M.; PERNEGR, Ya.; SUK, M.; SHIMAK, V.

Anisotropy of the angular distribution of particles in nuclear  
interactions at energies  $\sim 10^{12}$  ev. Zhur. eksp. i teor. fiz. 40  
no.3:976-979 Mr '61. (MIRA 14:8)

1. Fizicheskiy institut Chekhoslovatskoy akademii nauk, Praga, i  
Fakul'tet tekhnicheskoy i yadernoy fiziki ChPl, Praga.  
(Nuclear reactions)



PERNEGR, Ya.; SEDLAK, Ya.; TUCHEK, I.; SHIMAK, V.

Successive interactions between heavy nuclei of primary cosmic radiation. Zhur.eksp.i teor.fiz. 40 no.3:978-979 Mr '61.  
(MIRA 14:8)

1. Fizicheskiy institut Chekhoslovatskoy Akademii nauk, Praga.  
(Cosmic rays) (Nuclear reactions)

L 19371-63 EWT(m)/BDS AFFTC/ASD/IJP(C)  
ACCESSION NR: AR3006961

S/0058/63/000/008/V034/V034

SOURCE: RZh. Fizika, Abs. 8V233

AUTHOR: Votruba, M.; Perneqr, Ya.; Shimak, V.

TITLE: Two-center models of particle emission in cosmic-ray jets 19

CITED SOURCE: Tr. 7 mezhdunar. konferentsii po voprosam fiz.  
vy\*sokikh energiy, Sofiya, 1961. Sofiya, 1962, 60-63

TOPIC TAGS: cosmic ray , jet , multiple particle production, isobar  
model, two-center model.

TRANSLATION: The regions of applicability of two different variants  
of the theory of multiple particle production in jet showers of cos-  
mic rays are investigated: the isobar model and the two-center  
model. To this end, a quantity characterizing the degree of differ-  
ence between the two models and admitting of a simple transition from

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ACCESSION NR: AR3006961

one model to the other is introduced. An analysis of the experimental data on jet showers has shown that for primary energies  $E_0 < 10^{12}$  eV ( $\gamma_c \lesssim 20$ ) the jet showers are better described by the isobar model, whereas in the region  $E_0 \gtrsim 10^{12}$  eV ( $\gamma_c \gtrsim 20$ ) the two-center model is better. The transition region between the two ranges of applicability of the two models is sufficiently broad and indicates that the excitation of the colliding nucleons is also influenced by other factors in addition to the primary energy. V. Guzhavin.

DATE ACQ: 06Sep63

SUB CODE: PH

ENCL: 00

Card 2/2

ATILANOV, A.I., akademik; FAYNBERG, Ye.I., prof.; SHIMAK, V. [Shimakov, V.];  
prof. (Chekhoslovakiya); FISHER, Ya. [Fisher, J.], doktor (Chekhoslovakiya);  
PERNEER, Ya., doktor (Chekhoslovakiya); MARKS, G., prof. (Yugoslaviya);  
SHAPIRO, I.S., doktor fiz.-matemat. nauk

Comments by experimenters and theoreticians. Priroda 54 no.1:  
5-25 Jan '65. (MIRA 1842)